

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER OF PATENTS AND TRADEMARKS
Washington, D.C. 20231
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/332,358	06/10/1999	ENG-WHATT TOH	3915-US	2834
758	7590 01/14/2003			
FENWICK & WEST LLP SILICON VALLEY CENTER 801 CALIFORNIA STREET			EXAMINER	
			NOBAHAR, ABDULHAKIM	
MOUNTAI	N VIEW, CA 94041		ART UNIT	PAPER NUMBER
			2132	
			DATE MAILED: 01/14/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
Office Action Summan	09/332,358	TOH ET AL.			
Office Action Summary	Examiner	Art Unit			
TI MAIL IVO DATE ALL	Abdulhakim Nobahar	2132			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR RE THE MAILING DATE OF THIS COMMUNICATIO - Extensions of time may be available under the provisions of 37 CFI after SIX (6) MONTHS from the mailing date of this communication - If the period for reply specified above is less than thirty (30) days, a - If NO period for reply is specified above, the maximum statutory pe - Failure to reply within the set or extended period for reply will, by st - Any reply received by the Office later than three months after the m earned patent term adjustment. See 37 CFR 1.704(b). Status	N. R 1.136(a). In no event, however, may a reply. I reply within the statutory minimum of thirty (3 riod will apply and will expire SIX (6) MONTH atute, cause the application to become ABAN	y be timely filed 30) days will be considered timely. S from the mailing date of this communication.			
1) Responsive to communication(s) filed on _	·				
2a) ☐ This action is FINAL . 2b) ☑	This action is non-final.				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims					
4)⊠ Claim(s) <u>1-28</u> is/are pending in the applica	tion				
4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>1-28</u> is/are rejected.					
7) Claim(s) <u>1-20</u> is/are objected to.					
8) Claim(s) are subject to restriction an Application Papers	d/or election requirement.				
9) The specification is objected to by the Exam	iner.				
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
11)☐ The proposed drawing correction filed on is: a)☐ approved b)☐ disapproved by the Examiner.					
If approved, corrected drawings are required in reply to this Office action.					
12)☐ The oath or declaration is objected to by the Examiner.					
Priority under 35 U.S.C. §§ 119 and 120					
13)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).					
a) ☐ All b) ☐ Some * c) ☐ None of:					
1. Certified copies of the priority docume	ents have been received.				
2. Certified copies of the priority docume	ents have been received in Appl	ication No			
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
14) Acknowledgment is made of a claim for dome	•	i			
a) The translation of the foreign language 15) Acknowledgment is made of a claim for dome	provisional application has been	received.			
Attachment(s)					
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Infor	nmary (PTO-413) Paper No(s) mal Patent Application (PTO-152)			
J.S. Patent and Trademark Office					

CA)

Art Unit: 2132

DETAILED ACTION

Claim Rejections - 35 USC § 103

- . The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 1. Claims 1-28 are rejected under 35 USC 103(a) as being unpatentable over Smith et al (6,061,448) (hereinafter Smith) in view of Vazana (5,850,519).

Claims 1-3, 5, 12-14 and 28

Smith discloses a system for secure document delivery over an open network, such as Internet (col. 4, lines 26-61). The document is sent from a sender to a recipient via a delivery sever. In this system, upon the sender's direction the delivery server determines whether the recipient has a public key by querying a database (directory) (col. 4, lines 37-49 and col. 6, lines 11-15). In the event that the recipient does not have a public key (co. 5, lines 5-15) the server sends an e-mail message (a notification) to the recipient containing a dynamically generated URL. Recipient dynamically downloads a Java Applet or Plug-in by accessing the URL. This Applet or Plug-in then runs on the recipient system and generates a private/public key pair. The new public key is sent (col. 5, lines 15-29) to the delivery server and from there to the certificate authority for

Art Unit: 2132

storage (a public key directory). The delivery server may simply keep the public key in a local database. The delivery sever authenticates the recipient by using the recipient e-mail address and the properties of the generated URL. After the authentication the server transmits the recipient's public key to the sender. The sender uses the recipient's public key (col. 5, lines 30-45) to encrypt a secret key (corresponding to the recited escrow key) that has been used for encryption of the document to be delivered to the recipient. Afterward, the sender transmits the encrypted document, the recipient's address and the encrypted secret key to the delivery server to be delivered to the recipient. In another embodiment of the Smith system (col. 5, lines 60-65) the delivery server encrypts the document received from the sender using a secret key corresponding to the recited escrow key and encrypts the secret key using the recipient's public key. The server then sends the encrypted document and the

Page 3

Computer programs such as the Send Client within the sender computer, the Delivery Server software within the server computer and the Receive Client within the recipient computer are adapted to accomplish the above functions (col. 8, lines 1-18).

encrypted secret key to the recipient. In yet another embodiment, the server of the

Smith system (col. 6, lines 3-10) may use the recipient's public key to encrypt the

document. The encrypted document is then transmitted to the recipient.

Smith does not disclose expressly the storing of the encrypted document to be delivered to the recipient on the delivery server in neither cases that the recipient is having a public key or not.

Art Unit: 2132

Vazana discloses a system of delivering electronic messages (abstract) from a sender to a recipient in which the message is stored in the mailbox of the recipient on at least one main host computer (a server) (col. 3, lines 14-24.) The host computer (col. 5, line 52-col. 6, line 3) after storing the message in the intended recipient's mailbox, contacts the recipient via a dialing unit to notify the recipient of the stored message awaiting collection.

Smith and Vazana are analogous art because they are from the same field of endeavor that is delivering information from a sender to a recipient over an open network using at least one server in between.

It would have been obvious to a person of ordinary skill in the art at the time the invention was made to include an storage area in the delivery server of Smith as thought in Vazana because it would provide for storing (in escrow) the electronic information on the server (Vazana, col. 2, lines 29-34 and col. 3, lines 25-30) to be retrieved by the intended recipient upon receiving notification from the server.

Claims 4 and 7

Claims 4 and 7 are rejected over Smith in view of Vazana as applied to like elements of Claims 1-3 above and the following.

Art Unit: 2132

Smith (col. 4, lines 50-56) provides a secret key corresponding to the recited escrow key, for encryption and decryption of a document (col. 3, lines 64-67) to be transferred to a recipient. Smith also teaches that any encryption scheme (symmetric or asymmetric) (col. 4, lines 57-67) known in the art can be utilized for the secure transmission of information between a sender and a recipient.

Claim 6

Claim 6 is rejected over Smith in view of Vazana as applied to like elements of Claims 1-3 above and the following.

Smith (col. 5, lines 5-15) teaches that the delivery server notifies recipient via e-mail that there is no recipient's public key in the public key database.

Claim 8

Claim 8 is rejected over Smith in view of Vazana as applied to like elements of Claims 1-3 above and the following.

Smith (col. 5, lines 5-15) teaches that the secret key corresponding to the recited escrow key is not the same as the public and private keys of the recipient.

Claim 9

Claim 9 is rejected over Smith in view of Vazana as applied to like elements of Claims 1-3 above and the following.

Art Unit: 2132

Smith (col. 5, lines 17-25) teaches that the server authenticates the recipient using the recipient's e-mail address after receiving the public key of the recipient via e-mail that includes the recipient's name and e-mail address.

Claim 10, 11 and 15

Smith discloses that the delivery server upon the sender's request, queries a database to retrieve the recipient's public key (col. 4, lines 39-41). The sender uses the retrieved public key to encrypt the document (col. 3, lines 14-19). The encrypted document is then transmitted to the recipient via a network and only an intended recipient is permitted (an authenticated user) to gain access to the encrypted document (col. 3, lines 52-63).

However, Smith does not disclose expressly the storing of the encrypted document and notifying the intended recipient of the stored document.

Vazana discloses a system of electronic mail transmission in which the message is stored on the server and the recipient is notified of the awaiting message for collection (col. 6, lines 50-54).

It would have been obvious to a person of ordinary skill in the art at the time the invention was made to store the encrypted document on the delivery server of Smith as thought in Vazana because it would provide for the encrypted document to await the recipient until the recipient retrieves the document (Vazana, col. 2, lines 29-34 and col. 3, lines 25-30). This would especially be advantageous when the recipient is immediately not available (Vazana, col. 6, lines 56-59).

Art Unit: 2132

Claim 16

This claim is rejected over Smith in view of Vazana as applied to like elements of claims 1-3 above and the following.

Smith discloses (col. 3, lines 14-18) that the document is encrypted using the recipient public key. The encrypted document is then transmitted to the recipient and decrypted using the new private key associated with the public key.

Claims 17 and 23

Smith discloses the use of:

A programmatic interface corresponding to the recited directory interface, to access a database in determining whether the recipient has a public key (col. 6, lines 46-55);

A secret key corresponding to the recited escrow key for encryption of the document to be transferred to the recipient (col. 4, lines 50-55);

A Send Client (a software module) (col. 6, lines 9-10) to be used by the sender to encrypt the secret key and the document to be delivered to the recipient (col. 5, lines 30-45);

A computer code (corresponding to the recited notification module) that is used by the delivery server (col. 5, lines 5-11 and col. 8, lines 1-7) to send messages to the recipients via a network;

Art Unit: 2132

A computer module (col. 5, lines 10-15), such as an applet or plug-in to generate public and private keys for the recipient in response to the notification from the delivery server; and

A computer code (by the delivery server) (col. 7, lines 46-51 and col. 7, lines 30-35) for transmission of the encrypted document to the recipient(s).

Smith, however, does not disclose expressly the use of a storage area on the delivery server to store the encrypted document to be delivered to the recipient.

Vazana discloses the use of a storage area on the main host computer (the server) (col. 3, lines 19-24 and Fig. 2, item 70) to store (in escrow) the electronic mail for the addressee.

It would have been obvious to a person of ordinary skill in the art at the time the invention was made to include an storage area in the delivery server of Smith as thought in Vazana because it would provide for storing (in escrow) the electronic information on the server (Vazana col. 2, lines 29-34 and col. 3, lines 25-30) to be retrieved by the intended recipient upon receiving notification from the server.

Claim 18

This claim is rejected over Smith in view of Vazana as applied to like elements of claim 17 above and the following.

Smith discloses the storing of the recipient's public key (col. 5, lines 25-29 and col. 6, lines 50-67) in a database that either is residing on the delivery server or on a separate server.

Claim 19

This claim is rejected over Smith in view of Vazana as applied to like elements of claim 17 above and the following.

Smith discloses that the software module (applet or plug-in), after generating the public and private keys (col. 5, lines 16-29), transmits the recipient public key to the delivery server to be stored in a database for future use.

Claim 20

This claim is rejected over Smith in view of Vazana as applied to like elements of claim 17 above and the following.

Smith discloses that the delivery sever (col. 5, lines 5-11) uses a software to notify the recipient by e-mail message that there is no public key for the recipient in the database.

Claim 21

This claim is rejected over Smith in view of Vazana as applied to like elements of claim 17 above and the following.

Smith discloses that the secret key corresponding to the recited escrow key is provided to the users (col. 1, lines 33-55 and col. 7, lines 52-62) via a secure channel to be used as encryption and decryption key by the users.

Art Unit: 2132

Claim 22

This claim is rejected over Smith in view of Vazana as applied to like elements of

claims 4 and 17 above.

Claims 24 and 25

These claims are rejected over Smith in view of Vazana as applied to like

elements of claim 17 and 23 above and the following.

Smith discloses (col. 5, lines 5-15) that the Java Applet or Plug-in (corresponding

to the recited registration module) that generates the recipient's public and private keys

is transmitted to the recipient by the delivery server in an e-mail message (attachment).

The recipient receives the said module by accessing a URL link (hyperlink).

Claim 26

This claim is rejected over Smith in view of Vazana as applied to like elements of

claim 17 and 23 above and the following.

Smith discloses (col. 7, lines 31-60 and col. 8, lines 1-10) that the delivery server

is configured to forward to the recipient the secret key corresponding to the recited

escrow key and the encrypted document. The Receive Client (a software) of the

recipient receives the document and the secret key and uses the secret key to decrypt

the document.

Page 10

Claim 27

This claim is rejected over Smith in view of Vazana as applied to like elements of claim 17 and 23 above and the following.

Smith discloses (col. 7, lines 26-30) that the Send Client (a software) of the sender transmits to the delivery server the encrypted secret key corresponding to the recited escrow key and the encrypted document. The delivery server may decrypt the document using the secret key and alternatively re-encrypt the document (col. 6, lines 3-5) by using the recipient's public key. The encrypted document is then sent to the recipient. The Receive Client within the recipient receives the encrypted document (col. 7, lines 35-40) and uses the recipient private key to decrypt the document.

Conclusion

- 2. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure:
- U.S. Patent No. 6,044,155 to Thomlinson et al.
- U.S. Patent No. 5,396,537 to Schwendeman.
- U.S. Patent No. 5,903,735 to Kidder et al.
- U.S. Patent No. 5,241,599 to Bellovin et al.

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Abdulhakim Nobahar whose telephone number is 703-305-8074. The examiner can normally be reached on M-F 8-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gilberto Barron can be reached on 703-305-1830. The fax and phone numbers for the organization where this application or proceeding is assigned are 703-746-7239 for regular communications and 703-746-7238 for After Final and 703-746-7240 for Draft communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-305-3900.

Abdulhakim Nobahar

a. molalial

January 3, 2003

GILBERTO BARRON
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2100